

AMTEC

Lansing Community College

Presented by
Gordon Belt, Bo Garcia and Glenys Warner



Agenda

- Introductions & Quick Facts
- Pathway Mechatronics for Success at LCC
- Current state
- 2 year plan
- Next Steps
- Q & A



LCC Quick Facts

- Third largest among Michigan's 28 community colleges (in enrollment), serving more than 20,000 students a year
- Women 55%, Men 45%
- Average age 27
- 400 international students from 56 different countries
- Since 1957 more than 500,000 people have taken classes at LCC

LCC Quick Facts

- 5 main centers: Main Campus, West Campus, East Campus, Livingston Center, and Clinton County Center
- The college of choice for nearly one-third of Lansing School District graduates
- Fifth largest employer in the capital area
- In-district students pay below state average community college tuition

LCC Quick Facts

- Articulation agreements with 50 universities so students are assured their credits will transfer as they pursue bachelor's degrees



Pathway to Success

Create a pathway:

- Which will crosswalk academic Mechatronics curriculum competencies to AMTEC competencies
- Will link AMTEC (BCI) and LCC (TC) program pathways to lead to a Mechatronics Certificate or Degree.
- To give students choices to different pathways that best fit their lifestyle to achieve success

Current State

LCC Year One (completed)

- High School Program launched in 2012 – 2013 with ongoing review and improvements to the Mechatronics program
- Technical Careers (TC) Mechatronics Advisory Groups established with meetings held biannually

Current State

LCC Year One (completed)

- BCI AMTEC courses (modularized) offered with NOCTI assessment system in place (local pilots)
- Market survey conducted
- TC Manufacturing Engineering Technology (MET) Mechatronics sub choice identified

Current State

LCC Year One (completed)

LCC Core Identified for Associates Degree

These include:

- LCC Core Technical Writing
- Technical Math
- Oral Communication in the Workplace
- Diversity in the Workplace
- Metallurgy (Science Core - Applied)

LCC Year Two (2013-2014)

- AMTEC wrap around labs will be developed using TAA grant dollars
- BCI AMTEC courses will be mapped to academic equivalent courses

LCC Year Two (2013-2014)

AMT
1091

AMT
1092

AMT
1093

AMT
1094

AMTEC 109: SAFETY

Equates to

12 week course

LCC METD102: Industrial Safety

LCC Year Two (2013-2014)

AMT
1101

AMT
1102

AMT
1103

AMT
1104

AMTEC 110: WELDING and FABRICATION

Equates to

16 week course

LCC WELD 103: Combination Welding

LCC Year Two (2013-2014)

- Mechatronics Equipment Purchases completed
- BCI AMTEC launch (non-credit) – 4th quarter
- AMTEC Advisory Groups used to assess Quality Control and Market Receptivity

LCC Year Two (2013-2014)

- Technical Career Division and BCI – Continued Mechatronics course development
- Market Survey completed



Year Three (2014-2015)

- TC Launches Certificate Program in Mechatronics tied to MET Associate Degree

METS - Systems

Mechanical Power Transmission, Lubrication & Bearings, Hydraulics, Rigging

Year Three (2014-2015)

- BCI Launches full ATMEC modules to community which articulates to TC for academic credit



Year Three (2014-2015)

- Program is student driven – can take BCI and/or LCC Academic classes to achieve Mechatronics Certificate



Next Steps

- Mechatronics Equipment Purchase (AMTEC and other providers)
- Identify shared space for TC and BCI
- Instructor recruitment
- Cross pollination to other programs within the college

Q & A